

EXHIBIT E

Genbank Acc : NP-036224

XP-002094461

Zitierte Entgegenhaltung

P.D. 11-12 PCT/DE 98/02896
BUNDESREPUBLIK DEUTSCHLAND, ...
p. Unser Zeichen: 169-2 PCT

ID W75956 standard; Protein; 199 AA.
AC W75956;
DT 11-DEC-1998 (first entry)
DE Human cell surface protein #1.
KW Human; cell surface protein; thymocyte; lymphocyte; cell adhesion;
KW signal transmission; autoimmune disorder; allergy; diagnosis;
KW mitogen-stimulated.
OS Homo sapiens.
PN WO9838216-A1.
PD 03-SEP-1998.
PF 27-FEB-1998; J00837.
PR 26-FEB-1998; JP-062217.
PR 27-FEB-1997; JP-062290.
PA (NIBS) JAPAN TOBACCO INC.
PI Tamatani T, Tezuka K;
DR WPI; 98-481144/41.
DR N-PSDB; V53198.
PT Cell surface molecule expressed in thymocytes and lymphocytes and -
PT mediating signal transmission and cell adhesion, and antibodies to
PT it useful in treatment of auto:immune and allergic disorders.
PS Claim 2; Page 99-101; 149pp; Japanese.
CC The present sequence represents a human cell surface protein which is
CC expressed by thymocytes and by mitogen-stimulated lymphocytes. The cell
CC surface protein induces adhesion of mitogen-stimulated lymphocytes to
CC antibodies recognising the cell surface protein. These antibodies also
CC produce an increase in peripheral blood lymphocytes in the presence of
CC an antibody recognising CD3 antigen. The cell surface protein contains
CC the amino acid sequence FDPPPF in its extracellular region and the
CC sequence YMFH in its intracellular region. The cell surface protein can
CC be used in the prevention and treatment of autoimmune and allergic
CC diseases, and in the diagnosis and investigation of such disorders.
SQ Sequence 199 AA;

W75956 Length: 199 February 22, 1999 16:02 Type: P Check: 629 ..

1 MKSGLWYFFL FCLRIKVLTG EINGSANYEM FIFHNGGVQI LCKYPDIVQQ
51 FKMQLLKGKG ILCDLTKTKG SGNTVSIRSL KFCHSQLSNN SVSFFLYNLD
101 HSHANYFFCN LSIFDPPPFK VTLTGGYLHI YESQLCCQLK FWLPICCAAF
151 VVVCILGCIL ICWLTKKRYSSSVNDPNGEY MFMRAVNTAK KSRLTDVTL

Genbank Acc : NM_012092

XP-002094462

P.D. 11-12 - Zitierte Entgegenhaltung
PCT/DE 98/02896
p. Compl. BUNDESREPUBLIK DEUTSCHLAND...
Unser Zeichen: 169-2 PCT

ID V53199 standard; cDNA; 2610 BP.
AC V53199;
DT 11-DEC-1998 (first entry)
DE Human cell surface protein #2 encoding cDNA.
KW Human; cell surface protein; thymocyte; lymphocyte; cell adhesion;
KW signal transmission; autoimmune disorder; allergy; diagnosis;
KW mitogen-stimulated; ss.
OS Homo sapiens.
FH Key Location/Qualifiers
FT CDS 26..625
FT /*tag= a
FT /product= "cell surface protein"
PN W09838216-A1.
PD 03-SEP-1998.
PF 27-FEB-1998; J00837.
PR 26-FEB-1998; JP-062217.
PR 27-FEB-1997; JP-062290.
PA (NISB) JAPAN TOBACCO INC.
PI Tamatani T, Tezuka K;
DR WPI; 98-481144/41.
DR P-PSDB; W75957.
PT Cell surface molecule expressed in thymocytes and lymphocytes and -
PT mediating signal transmission and cell adhesion, and antibodies to
PT it useful in treatment of auto:immune and allergic disorders.
PS Claim 9; Page 101-105; 149pp; Japanese.
CC The present sequence encodes a human cell surface protein which is
CC expressed by thymocytes and by mitogen-stimulated lymphocytes. The cell
CC surface protein induces adhesion of mitogen-stimulated lymphocytes to
CC antibodies recognising the cell surface protein. These antibodies also
CC produce an increase in peripheral blood lymphocytes in the presence of
CC an antibody recognising CD3 antigen. The cell surface protein contains
CC the amino acid sequence FDPFFF in its extracellular region and the
CC sequence YMFN in its intracellular region. The cell surface protein can
CC be used in the prevention and treatment of autoimmune and allergic
CC diseases, and in the diagnosis and investigation of such disorders.
SQ Sequence 2610 BP; 743 A; 544 C; 505 G; 815 T;

V53199 Length: 2610 February 22, 1999 15:34 Type: N Check: 359 ..

1 GGACTGTAA CTGTTCTGG CAAACATGAA GTCAGGCCTC TGTTATTTCT

51 TTCTCTTCTG CTTGCGCATT AAAGTTTAA CAGGAGAAAT CAATGGTTCT
101 GCCAATTATG AGATGTTTAT ATTCACAAC GGAGGTGTAC AAATTTTATG
151 CAAATATCCT GACATTGTCC AGCAATTAA AATGCAGTTG CTGAAAGGGG
201 GGCAAATACT CTGCGATCTC ACTAAGACAA AAGGAAGTGG AAACACAGTG
251 TCCATTAAGA GTCTGAAATT CTGCCATTCT CAGTTATCCA ACAACAGTGT
301 CTCTTTTTTT CTATACAACT TGGACCATTC TCATGCCAAC TATTACTTCT
351 GCAACCTATC AATTTTGTAT CCTCCTCCTT TTAAAGTAAC TCTTACAGGA
401 GGATATTTGC ATATTTATGA ATCACAACCT TGTGCCAGC TGAAGTTCTG
451 GTTACCCATA GGATGTGCAG CTTTGTGTGT AGTCTGCATT TTGGGATGCA
501 TACTTATTTG TTGGCTTACA AAAAAGAAAGT ATTCATCCAG TGTGCACGAC

551 CCTAACGGTG AATACATGTT CATGAGAGCA GTGAACACAG CCAAAAAATC
601 TAGACTCACA GATGTGACCC TATAATATGG AACTCTGGCA CCCAGGCATG
651 AAGCACGTTG GCCAGTTTTC CTCAACTTGA AGTGCAAGAT TCTCTTATTT
701 CCGGGACCAC GGAGAGTCTG ACTTAACCTAC ATACATCTTC TGCTGGTGT
751 TTGTTCAATC TGGAAGAATG ACTGTATCAG TCAATGGCGA TTTTAACAGA

851 GCTTTGGAGA AAGCCCAGCT CCTGTGTGCT CACTGGGAGT GGAATCCCTG
901 TCTCCACATC TGCTCCTAGC AGTGCATCAG CCAGTAAAAC AAACACATTT
951 ACAAGAAAAA TGTTTTAAAG ATGCCAGGGG TACTGAATCT GCAAAGCAAA
1001 TGAGCAGCCA AGGACCAGCA TCTGTCCGCA TTTCATATC ATACTACCTC

1051 TTCTTTCTGT AGGGATGAGA ATTCCTCTTT TAATCAGTCA AGGGAGATGC
1101 TTCAAAGCTG GAGCTATTTT ATTTCTGAGA TGTGATGTG AACTGTACAT
1151 TAGTACATAC TCAGTACTCT CCTTCAATTG CTGAACCCCA GTTGACCATT
1201 TTACCAAGAC TTTAGATGCT TTCTTGTGCC CTCAATTTTC TTTTAAAAA
1251 TACTTCTACA TGACTGCTTG ACAGCCCAAC AGCCACTCTC AATAGAGAGC
1301 TATGTCTTAC ATTCTTTCCT CTGCTGCTCA ATAGTTTTAT ATATCTATGC
1351 ATACATATAT ACACACATAT GTATATAAAA TTCATAATGA ATATATTTGC
1401 CTATATTCTC CCTACAAGAA TATTTTGTCT CCAGAAAGAC ATGTTCTTTT
1451 CTCAAATTCA GTTAAATGG TTTACTTGT TCAAGTTAGT GGTAGGAAAC
1501 ATTGCCCCGA ATTGAAAGCA AATTAWWT ATTATCCTAT TTTCTACCAT

1551 TATCTATGTT TTCATGGTGC TATTAATTAC AAGTTTAGTT CTTTTGTAG
1601 ATCATATTAA AATTGCAAAC AAAATCATCT TTAATGGGCC AGCATTCTCA
1651 TGGGGTAGAG CAGAATATTC ATTTAGCCTG AAAGCTGCAG TTAATATAGG
1701 TTGCTGTCAG ACTATACCCA TGGTGCCTCT GGGCTTGACA GGTCAAAATG
1751 GTCCCCATCA GCCTGGAGCA GCCCTCCAGA CCTGGGTGGA ATTCCAGGGT
1801 TGAGAGACTC CCCTGAGCCA GAGGCCACTA GGTATTCTTG CTCCCAGAGG
1851 CTGAAGTCAC CCTGGGAATC ACAGTGGTCT ACCTGCATTC ATAATTCCAG
1901 GATCTGTGAA GAGCACATAT GTGTCAGGGC ACAATTCCCT CTCATAAAAA
1951 CCACACAGCC TGGAAATTGG CCCTGGCCCT TCAAGATAGC CTTCTTTAGA
2001 ATATGATTTG GCTAGAAAGA TTCTTAAATA TGTGGAATAT GATTATTCTT

2051 AGCTGGAATA TTTTCTCTAC TTCCTGTCTG CATGCCCAAG GCTTCTGAAG
2101 CAGCCAATGT CGATGCAACA ACATTTGTAA CTTTAGGTAA ACTGGGATTA
2151 TGTTGTAGTT TAACATTTTG TAACTGTGTG CTTATAGTTT ACAAGTGAGA
2201 CCCGATATGT CATTATGCAT ACTTATATTA TCTTAAGCAT GTGTAATGCT
2251 GGATGTGTAC AGTACAGTAC WTAACCTGTA ATTTGAATCT AGTATGGTGT
2301 TCTGTTTTCA GCTGACTTGG ACAACCTGAC TGGCTTTGCA CAGGTGTTCC
2351 CTGAGTTGTT TGCAGGTTT TGTGTGTGGG GTGGGGTATG GCGAGGAGAA
2401 CCTTCATGGT GGCCACCTG GCCTGGTTGT CCAAGCTGTG CCTCGACACA
2451 TCCTCATCCC AAGCATGGGA CACCTCAAGA TGAATAATAA TTCACAAAAT